

Patent Claims

WHAT IS CLAIMED IS

1. A process for the production of a three-dimensional substrate provided with a protective and decorative laminar structure, ~~characterised in that~~ ^{without using spray application, wherein} a primer layer of a coating composition (I) which is electrically conductive in the stoved state is applied ~~without spraying~~ onto an electrically conductive substrate and stoved, whereupon a substrate not yet in the desired three-dimensional shape is shaped, whereupon a second coating layer of an electrophoretically depositable coating composition (II) is electrophoretically deposited and stoved and whereupon a plastic film is applied.
2. A process according to claim 1, ~~characterised in that~~ ^{wherein} the conductive primer layer is applied by brushing, roller application, dipping or flow coating.
3. A process according to claim 1 ~~or 2, characterised in that~~ ^{wherein} the conductive primer layer is applied using the coil coating process by autophoretic deposition or electrophoretic deposition.
4. A process according to ~~any one of claims 1, 2 or 3,~~ ^{claim 1, wherein} ~~characterised in that~~ the conductive primer layer is applied onto the entire surface of the substrate.
5. A process according to ~~any one of claims 1 to 4,~~ ^{claim 1, wherein} ~~characterised in that~~, once the conductive primer layer has been applied and stoved, the substrate is shaped three-dimensionally and optionally previously stamped or cut.
6. A process according to ~~any one of claims 1 to 5,~~ ^{claim 1, wherein} ~~characterised in that~~ the substrate is in the form of

components which are combined into an assembly before application of the second coating layer.

claim 1, wherein
 7. A process according to ~~any one of claims 1 to 5~~
~~characterised in that~~ the conductive primer layer is
 applied onto both sides of a substrate in the form of
 a sheet metal coil using the coil coating process and
 stoved, sheet metal components are stamped out from
 the coil and shaped and then provided with the second
 coating layer by electrophoretic deposition.

claim 1, comprising
 8. A process according to ~~any one of claims 1 to 7~~
~~characterised in that~~ it is used for coating motor
 vehicles or the components thereof.

claim 1
 9. A decorative laminar structure obtained using the
 process of ~~any one of claims 1 to 8~~.

claim 1
 10. A three-dimensional substrate provided with a
 protective and decorative laminar structure obtained
 according to ~~any one of claims 1 to 8~~.

add
 E4

& add
 F3

Sub D 3
 10

Sub E 3
 15

Sub F 3
 20